

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system ~~data processing device~~ for computer-aided tendering of a projected power supply facilities facility, ~~in particular substations,~~ comprising:

~~computing means and a module library for storing programme modules representing pre-engineered parts of the facility, which modules can be retrieved from the library for being used in projecting the facility, wherein~~

a processor;

a module library stored in a computer-readable medium including a plurality of modules representing pre-engineered parts that may be included in the facility, said plurality of modules being categorized using a multiple-index categorization system having multiple independent indices accessible by one or more operators who project the facility, and having standardized software interfaces; and

a program stored in a computer-readable medium that, when executed by the processor, is operable to:

retrieve modules from the module library, and

generate tendering information for the facility based on information associated with the retrieved modules.

a) ~~the modules are categorised using a multiple index categorisation system that is immediately accessible by an operator who projects the facility, and~~

~~b) — the modules are equipped with unified software interfaces to application routines that, when executed on the projected facility, create tendering information about the projected facility.~~

2. (Currently Amended) The system recited ~~data processing device as claimed~~ in claim 1, wherein:

the plurality of independent indices include, at least, a discipline index, a function index, and a technical specification index of the pre-engineered parts within the facility; and

the program is further operable to search the plurality of modules in the library based on at the plurality of independent searching indices.

~~— [[a)] in the categorisation system each module is attached at least three independent searching indices characterising at least a discipline, a function, and a technical specification of the pre-engineered part within the facility and/or~~

~~[[b)] based on the categorisation system a module browser with navigator for categorising and searching modules in the library is provided.~~

3. (Currently Amended) The system recited ~~data processing device as claimed~~ in claim 1, wherein the plurality of modules include: ~~are typified as~~

core modules, which comprise sub-modules and/or articles, and

[[as]] black-box modules, which are freely definable from a user interface or

[[are]] predetermined by a supplier.

4. (Currently Amended) The system recited ~~data-processing device as claimed~~ in claim 3, wherein:

[[a)]] ~~the~~ core modules are associated with ~~attached~~ cost information by means of a bill of quantity including ~~comprising~~ a number of occurrences of article-numbers, ~~and/or~~ sub-modules containing article-numbers, and cost information about the articles is ~~available from~~ stored in an article database[[,]]; and

[[b)]] ~~the~~ black-box modules are associated with ~~attached~~ cost information by assigning the cost immediately, ~~in particular~~ integrally or subpart-wise, to the black-box modules ~~themselves~~.

5. (Currently Amended) The system recited ~~data-processing device as claimed~~ in claim 1, wherein the plurality of modules include:

[[a)]] ~~the modules are typified as rigid~~ modules, which are unchangeable from a user interface[[,]]; and

[[as)]] parameterized ~~parametrisable~~ modules, which have a parameter or parameter set that is changeable from [[a)]] said user interface, [[and]]

wherein ~~b)—in particular that in~~ parameterized ~~parametrisable~~ core modules include a sub-module ~~may have a~~ having at least one parameter or parameter set that is changeable from a bill of quantity from which the sub-module can be called.

6. (Currently Amended) The system recited ~~data-processing device as claimed~~ in claim 1, wherein:

[[a)]] the program includes application routines ~~comprise routines for~~ operable to perform one or more of automatic cost calculation, [[for]] tender text accumulation,

[[for]] technical data accumulation and, ~~in particular,~~ [[for]] drawing accumulation; and
and/or

[[b)]] the plurality of modules are associated with every module has a standardized
module-descriptor comprising standardized module data characterizing a respective
one of the plurality of modules characterising the module and providing a
standardized interface ~~to the application routines for delivering the module~~ [[data]]
information to the application routines.

7. (Currently Amended) The system recited data processing device as claimed
in claim 6, wherein:

[[a)]] the standardized module-descriptor includes at least one of data comprise: a
bill of quantity and prices of articles and/or sub-modules, technical data, a tender text
and drawings, and ~~optionally a single line diagram and/or 3D drawing and/or~~

[[b)]] a tender text includes ~~contains~~ a scope of supply, a description of sub-
modules or articles of the module, and/or technical manuals of articles.

8. (Currently Amended) The system recited data processing device as claimed
in claim 1, wherein the plurality of modules are associated with rules defining
boundaries corresponding to at least one of:

physical boundaries of a component, [[or]]

a functional unit of the facility,

[[with]] a sub-supplier's area of responsibility, and ~~and/or with~~
existing module boundaries.

9. (Currently Amended) The ~~system recited data processing device as claimed~~
in claim 1, ~~wherein,~~ comprising:

[[a)] a module development area is provided that comprises the module library and
software tools for defining and/or importing new modules using the categorization
~~categorisation system, and~~ and/or

[[b)] a project area including a computer-readable memory for storing the retrieved
modules ~~is provided that comprises a project memory space for downloading~~
~~modules from the library~~ for projecting and tendering purposes.

10. (Cancelled).

11. (Currently Amended) A method for tendering a power supply facility, wherein ~~a data processing device comprising a module library for storing programme modules that represent pre-engineered parts of the facility is present, the method comprising: the steps of~~

searching and downloading a module library stored in a computer-readable medium including a plurality of modules representing pre-engineered parts that may be included in a facility, the modules being categorized using a multiple-index categorization system having a plurality of independent indices accessible by one or more operators who project the facility;

retrieving modules from the module library, and

generating tendering information for the projected facility based on information associated with the retrieved modules.

~~projecting tendering information the facility, wherein~~

~~a) — the modules are searched in the library by an operator using a multiple-index categorisation system and~~

~~b) — application routines are run by the operator on the modules of the projected facility to create tendering information about the projected facility.~~

12. (Currently Amended) The method recited ~~as claimed~~ in claim 11, wherein including:

[[a)] presenting a module browser interface is presented to the at least one operator, said module browser interface associating which provides for each module the plurality of modules with at least three independent searching indices characterizing a discipline, a function, and a technical specification of the module

and/or a module-name encoding its function in an intuitively understandable way

and/or a preview of files related to the module and/or

~~[[b)]] a module descriptor comprising standardized module data is automatically interfaced via a standardized interface to the application routines for delivering the module data to the routines.~~

13. (Currently Amended) The method recited as claimed in claim 11, including:
~~wherein upon downloading a module into a project~~

~~[[a)]] instantiating the retrieved modules the module being stored in the library in generic form is instanced by assigning [[it]] the retrieved modules a module type, a module number_i and, in the case of parameterized parametrisable modules, a module parameter setting_i and/or~~

~~[[b)]] the module is automatically detached~~

~~detaching the selected module from the library_i and~~

~~copying related cost information into the retrieved modules, said cost information being changeable by the one or more operators is automatically copied from an article database into the project and can, in particular, be changed by the operator.~~

14 - 15. (Cancelled).

16. (New) A computer-readable medium containing instructions that, when executed by a processor, perform steps for computer-aided tendering of a projected power supply facility, comprising:

searching a module library, said module library including a plurality of modules representing pre-engineered parts that may be included in the facility, the modules being categorized using a plurality of independent indices;

retrieving modules from the module library; and

generating tendering information for the facility based on information associated with the retrieved modules.

17. (New) The computer-readable medium of claim 16, wherein the step of selecting modules includes:

searching modules in the library based on the plurality of independent indices using a module browser having a user-interface for categorizing and searching modules in the library, the plurality of indices including a discipline, a function, and a technical specification of the pre-engineered parts within the facility.

18. (New) The computer-readable medium of claim 16, wherein the plurality of modules include:

core modules, which comprise sub-modules and/or articles, and

black-box modules, which are freely definable from a user interface or are predetermined by a supplier.

19. (New) The computer-readable medium of claim 18, wherein the plurality of modules include:

core modules are associated with cost information by means of a bill of quantity including one or more of a number of occurrences of article-numbers, and sub-modules containing article-numbers, and cost information about the articles is available from an article database, and

black-box modules are associated with cost information by assigning the cost immediately, in particular integrally or subpart-wise, to the black-box modules themselves.

20. (New) The computer-readable medium of claim 16, wherein the plurality of modules include:

parameterized modules having at least one parameter that is changeable, and parameterized core modules including a sub-module having at least one parameter that is changeable from a bill of quantity from which the sub-module can be called.

21. (New) The computer-readable medium of claim 16, the step of generating includes:

performing one or more sub-steps including automatic cost calculation, tender text accumulation, technical data accumulation, and drawing accumulation.

22. (New) The computer-readable medium of claim 16, wherein the plurality of modules are associated with a standardized module-descriptor characterizing a respective one of the plurality of modules and providing a standardized interface.

23. (New) The computer-readable medium of claim 21, wherein:

the standardized module-descriptor includes at least one of a bill of quantity and prices of articles or sub-modules, technical data, tender text, and drawings, and tender text contains a scope of supply, a description of sub-modules or articles of the module, and/or technical manuals of articles.

24. (New) The computer-readable medium of claim 16, wherein the plurality of modules are associated with respective rules defining boundaries corresponding to at least one of a physical boundary of a component, a functional unit of the facility, a sub-supplier's area of responsibility, and an existing module boundary.